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GENERAL

BRÜCKNER, EDUARD. Über de Heranbildung der Geographielehrer an der Universität. *Geog. Zeitsch.*, Vol. 15, No. 12, pp. 665-674, 1909.

SANDER, DR. LUDWIG. Tropenhygiene. *Deutsche Kolonialz.*, Vol. 27, No. 2, pp. 17-18, 1909.

WEICHERT, E. Our Present Knowledge of the Earth. *Annual Report* Smithsonian Instit., pp. 431-449, 1908.

NEW MAPS

NORTH AMERICA

NORTH AMERICA. (a) Miocene in North America; (b) Eocene-Oligocene in North America. 1 inch=900 miles. By Bailey Willis. *Jour. of Geol.*, Vol. 17, No. 6, Chicago, 1909. [A black map illustrating "Paleographic Map of North America" by Mr. Willis.]

UNITED STATES GEOLOGICAL SURVEY MAPS

ALASKA. The following black maps appear in "Mineral Resources of Alaska, 1908," *Bull.* 379, 1909: (a) Relief Map of Central Alaska showing Distribution of Mineral Resources. 1 inch=110 miles; (b) Geologic Map of Kasaan Peninsula, Prince of Wales Island. 1 inch=1.5 mile. [Symbols for rock formations, productive mines, and prospects]; (c) Geologic Map of Copper Mountain Region, Prince of Wales Island. 1 inch=1.6 mile; (d) Preliminary Map showing Mineral Resources of Prince William Sound Region and Adjacent Territory from Resurrection Bay to the Copper River Delta. 1 inch=10.1 miles; (e) Map of Southwestern Alaska [Alaska Peninsula] showing Distribution of Known Mineral Deposits. 1 inch=*ca* 70 miles; (f) Geologic Sketch Map of Cook Inlet Region. 1 inch=50.1 miles; (g) Geologic Map of Herendeen Bay Coal Field. 1 inch=4.2 miles; (h) Geologic Map of Coal Harbor Coal Field, Unga Island. 1 inch=4.5 miles; (i) Map of the Region of the Wrangell and Nutzotin Mts. 1 inch=14 miles [shows distribution of copper and gold]; (j) Geologic Map of Fairbanks District. 1 inch=2.6 miles; (k) Map Showing Distribution of Mineral Resources in Iron Creek Region, Seward Peninsula. 1 inch=3.2 miles.

CALIFORNIA AND NEVADA. General Map Showing Approximate Location of Better Known Springs in the Mohave and Adjacent Deserts, in S. E. Cal. and S. W. Nevada. 1 inch=18 miles. With "Some Desert Watering Places in Southeastern California and Southwestern Nevada" by Walter C. Mendenhall. Water Supply Paper 224, 1909.

UNITED STATES. (a) Map of the United States, showing areas covered by Geologic Surveys. 1 inch=225 miles; (b) Map of U. S., showing areas covered by Topographic Surveys and the scale employed for each area. 1 inch=225 miles. With Thirtieth *Ann. Rep.* of the Director of the U. S. Geol. Surv., Fiscal year ending June 30, 1909. [The special information in red.]

UNITED STATES. (a) General Geological Map of Birmingham Valley, Ala., Showing Distribution of Formations and location of Mines and Prospects. 1:125,000=1.9 miles to an inch. Interval, 50 feet. [Geologically colored]; (b)

Map of Birmingham District, Ala., showing outlines and relations of iron ore, coal, limestone and other economic Features. 1 inch=7 miles; (c) Geologic Map of Woodstock Brown Ore Area, Ala. 1 inch=13.7 mile. With *Bull.* 400, "Iron Ores, Fuels and Fluxes of the Birmingham District, Ala.," by E. F. Burchard and C. Butts, Washington, 1910.

UNITED STATES. (a) Geographic Distribution of Producer-Gas Power Plants, based on number of installations in any locality. (b) The same based on horse power installations in any locality. Scale, 1 inch=94 miles. [Black symbols for information required. Illustrate *Bull.* 416, 1909.]

COAST AND GEODETIC SURVEY MAPS

ALASKA. Lines of Equal Magnetic Declination and of Equal Annual Change in Alaska for 1910. 1:7,000,000=110 miles to an inch. 48°-70° N.; 112°-156° W. With "Distribution of the Magnetic Declination in Alaska and adjacent regions for 1910," by R. L. Faris, Coast and Geod. Surv., Terrestrial Magnetism, Appendix 4, *Rep.* for 1909, Washington, 1910. [Red lines of Declination are drawn for each degree. Blue lines show annual rate of change in position of north end of the compass needle.]

HYDROGRAPHIC OFFICE CHARTS

Pilot Chart of the South Atlantic Ocean, March, April and May, 1910.

Pilot Chart of the South Pacific Ocean, March, April and May, 1910. [On the reverse is a Circumpolar Chart of the Southern Hemisphere on a meridional scale of 420 nautical miles to an inch. Discoveries of Antarctic lands are noted, the coast of Wilkes Land, as mapped by Wilkes, is indicated, and 13 symbols show the northern ice limits for each month in the year and the ice barrier for given months. An inset diagram denotes the periods passed by exploring vessels south of the 60th parallel.]

Pilot Charts of the North Pacific Ocean, March and April, 1910. [The chart for March prints on the reverse, the paper by Mr. G. W. Littlehales, "The Disproof of the Existence of Reed or Redfield Rocks," which appeared in the *Bulletin* for Sept., 1904.]

Pilot Chart of the North Atlantic Ocean, March, 1910.

DEPARTMENT OF AGRICULTURE MAPS

UNITED STATES. Soil Survey Maps of Bibb and Cullman Cos., Ala.; the Pajaro Valley, Cal.; Allen Co., Ind.; Livingston Co., N. Y.; The Klamath Reclamation Project, Ore. 1 inch=1 mile and 1 inch=0.9 mile. [In colors, with contours of elevation. Each map accompanied by descriptive text.]

CALIFORNIA. Eight maps of counties showing boundaries of National Forests. The counties are: El Dorado, Madera, Placer, Shasta, Sierra, Siskiyou, Trinity and Tuolumne. No scale. Compiled from data supplied by the U. S. Forest Service. State Mining Bureau, Lewis E. Aubury, State Mineralogist, San Francisco, 1909. [Boundaries and names of National Forests in red. The omission of map scales is regrettable.]

MISSOURI. The following colored maps appear in "Geology of the Disseminated Lead Deposits of St. Francois and Washington Counties, Mo." Missouri Bureau of Geology and Mines, Vol. 9, Parts 1 and 2, Jefferson City, 1909: (a)

Geological Map of Southeastern Missouri, Showing Area Covered by this Report. 1 inch=4 miles. E. R. Buckley, Director and State Geologist. [10 colored symbols for rock formations]; (b) Geologic and Topographic Map, Bonne Terre Sheet. 1:62,500=0.9 mile to an inch. Contour interval 20 feet. Geology by E. R Buckley; (c) Geological Map of the Flat River—Leadwood Areas. 1 inch= 0.4 mile. Contour interval, 10 feet; (d) Geological Map of the Bonne Terre Area. 1 inch=0.37 mile. Interval, 20 feet.

MISSOURI. Geological Map of Morgan County. 1 inch=0.75 mile. By C. F. Marbut. In colors. Missouri Bureau of Geology and Mines, Vol. 7, 2nd Series, Jefferson City, Mo. No date. [13 colored symbols for rock formations.]

MISSOURI. Geological Map of Pine County, Mo. 1 inch=0.75 mile. By R. R. Rowley. Missouri Bureau of Geology and Mines, Vol. 8, 2nd Series, Jefferson City, Mo. No date.

MEXICO. (a) Plano Puerto de Coatzacoalcos. 1:10,000; (b) Salina Cruz. Obras del Puerto. 1:6,000. With "El Ferrocarril nacional de Tehuantepec y los Puertos de Coatzacoalcos y Salina Cruz," by Civil Engineer Gabriel M. Oropesa. In *Memorias y Revista* de la Sociedad Cientifica "Antonio Alzate." Tomo 25. Nos. 9 á 12, Federal Government, Mexico City, 1909. [Black plans of these terminal ports of the Tehuantepec R.R.]

SOUTH AMERICA

BRITISH GUIANA. Map of British Guiana. 1 inch=50 miles. 1°-8° 50′ N.; 56° 10′-61° 30′ W. Compiled from the most recent Surveys in the Department of Lands and Mines. With "Handbook of British Guiana, 1909," Permanent Exhibitions Comm., Georgetown, 1908. [A colored map showing ocean and land steam routes, roads, postoffices and government stations, Indian reservations, and rubber, gold and diamond areas.]

CHILE. Travaux géodésiques au Chili. 1:5,000,000=78.9 miles to an inch. With "*Rapport* sur les Travaux géodésiques au Chili" by Luis Riso-Patron. [Shows geodetic net work. The paper and map were presented at the 16th Meeting of the International Geodetic Association in London, September, 1909.]

LAKE TITICACA. (a) Cortes del Lago Titicaca. [Six profiles of the lake, the vertical scale for depths being a 50-fold exaggeration of the horizontal scale.] (b) Mapa Batimetrico del Lago Titicaca. 1:825,000. Mission G. de Gréqui Montfort y E. Sénéchal de La Grange. Edited by Dr. Neveu-Lemaire. [4 colored symbols for depths. The maps illustrate "Los Lagos de los Altiplanos de la América del Sud" by Dr. M. N. Lemaire. Spanish translation by Dr. B. D. Romero. Dirección General de Estadística y Estudios Geográficos, La Paz, 1909.]

AFRICA

GERMAN SOUTHWEST AFRICA. Stadtplan von Windhuk. No scale. *Deutsche Kolonialz.* Vol. 27, No. 7, Berlin, 1910.

SAHARA. (a) In Ghar; (b) Tit; (c) Aoulef-Timokten; (d) Akabli; (e) In Belbel et Matriouen. Scales, 1:100,000 and 1:50,000. With "Le Tidikelt" by L. Voinot. *Bull. Trim.* de la Soc. de Géog. et d'Arch. d'Oran, Vol. 29, No. 4, Oran, 1909.. [Black sketch maps of oases in Tidikelt.]

TRANSVAAL COLONY. Map of the Transvaal Colony. 1 inch=30 miles. Compiled in the Surveyor General's Office, Pretoria, 1902; revised Jan., 1909. With *Report* of the Geol. Surv. for 1908. Pretoria, 1909. [Shows, in colors areas surveyed up to the end of 1907 and those completed during 1908.]

ASIA

CENTRAL ASIA. Dr. Aurel Stein's Routes in 1906-08. (In Hungarian.) 1:4,000,000=63.16 miles to an inch. 34°-44° N.; 74°-101° E. *Bull.* Hungarian Geog. Soc., Vol. 37, No. 8, Budapest, 1909. [In colors, with routes in red.]

CHINA AND TIBET. Weg der Expedition Filchner in China u. Tibet. 1:6,000,000=94.6 miles to an inch. With "Wissenschaftliche Ergebnisse der Expedition Filchner nach China u. Tibet, 1903-5. Band 10, Teil 1. Abschnitt 1: Zoologische Sammlungen; Abschnitt 2: Botanische Sammlungen. Mittler & Sohn, Berlin, 1908.

THE PHILIPPINES. Reconnaissance Map of the Geologic Districts of Leyte. 1 inch=22 miles. With paper "Geological Reconnaissance of the Island of Leyte, etc.," by George I. Adams. *Phil. Jour. of Sci.,* Vol. 4, No. 5, Manila, 1909. [Colors show different formations.]

TIBET. Geological Map of parts of the Province of Tsang and Ü in Tibet. 1 inch=8 miles. With "The Geology of the Provinces of Tsang and Ü in Central Tibet," by H. H. Hayden, Supt. Geol. Surv. of India. *Memoirs* Geol. Surv. of India, Vol. 26, part 2, Calcutta, 1907. [8 tints for geological formations. The map shows the results of the traverse made through a considerable part of Central Tibet on the Younghusband expedition to Lhasa.]

AUSTRALASIA AND OCEANIA

WESTERN AUSTRALIA. Geological Sketch Map of the Country along Route of proposed Transcontinental Railway. 1 inch=20 miles. 30°-33° S.; 121°-129° 15′ E. By C. G. Gibson. With *Bull.* 37, same title, of the Geol. Surv. of Western Australia, Perth, 1909.

NEW ZEALAND. The following maps, in colors, appear in "The Geology of the Mikonui Subdivision, North Westland," *Bull.* No. 6, New Series, New Zealand Geological Survey, Wellington, 1908: Topographical and Geological maps, 1 inch=1 mile, of the (a) Waitaha, (b) Toaroha, (c) Mount Bonar and Parts of Wanganui and Poerua, (d) Totara, and (e) Whitcombe Pass and Portions of Poerua and Butler Survey Districts. James Mackintosh Bell, Director, Geological Survey. [Excellent maps, giving a large variety of information.]

DUTCH NEW GUIANA. (a) Overzicht der ontdekkingen in Ned. Nieuw-Guinea tot begin 1908. 1:3,000,000; (b) Kaarten van Zuidwestkust van Nieuw-Guinea. Various scales. [Six sketch maps showing results of coast surveys and soundings]; (c) Etna Baai. 1:75,000. 3° 54′-4° 5′ S.; 134° 5′-134° 57′ E. [Geological coloring, with soundings and nature of coasts]; (d) Rivierverkenningen in Z. W. Nieuw-Guinea. Oetakwa of Tania R (5° S.; 137°-13′ E.) and an unnamed river (5°-16° S.-137° 40′ E.) Scale of river lengths, 1:100,000; breadths, 1:40,000. By Capt. E. J. de Rochemont, Sept.-Oct., 1904. [Showing depths and kinds of vegetation along river banks. These rivers have not been indicated, hitherto.] (e) Digóel Rivier, 1:200,000. By R. Posthumus Meyjes, March and April, 1905. [A detailed black map of the entire course of the river, with soundings and nature of vegetation along the banks.] (f) Zuidwestkust Nieuw-Guinea, 1:1,000,000. 3°-8° 30′ S.; 134° 30′-141° E. [Colored map collating all the survey work of the Southwest New Guinea Expedition, 1904-5 of the Royal Dutch Geographical Society. These maps illustrate "De Zuidwest Nieuw-Guinea Expeditie, 1904-5, van het Kon. Ned. Aardrijkskundig Genootschap," E. J. Brill, Leyden, 1908.]

EUROPE

AUSTRIA-HUNGARY. Das Tatragebirge. Einteilung und Verteilung der mittleren Höhe. 1:300,000=4.73 miles to an inch. With paper "Einteilung und Orometrie des Tatragebirges nebst einem Beitrag zur Wald-und Knieholzgrenze.' By A. Holle. In *Abhandlungen* k. k. Geog. Gesells. in Wien, Vol. 8, No. 2, Vienna, 1909. [Curves of elevation, with 200 meters interval and superimposed transparent sheet with contours showing heights at which timber and scrub grow.]

AUSTRIA-HUNGARY. (a) Schi-Routenkarte der Niederösterr.-Steirischen Kalkalpen. 1:100,000=1.5 mile to an inch. (b) Schi-Routenkarte des Ob. Ennstales u. d. Rottenmanner Tauern. 1:100,000. G. Freytag & Berndt, Vienna, 1909. Paper, K. 2, Linen, K 2.80. [Two of the superior tourist maps of this firm showing in red the ski routes and those adapted only for climbing, refuge huts, mountain hotels, forests and much other information.]

AUSTRIA-HUNGARY. G. Freytags Verkehrs-Karte von Österreich-Ungern. 1910. 1:500,000=23.67 miles to an inch. G. Freytag & Berndt, Vienna, 1910. Paper, K 2.40. [This annually revised map gives the fullest information on transportation in the Empire. An inset shows the connection of the imperial railroad system with that of the Balkan States and Turkey. An index to all railroad stations (52 pp.) refers to index letters and numerals on the map margin.]

FRANCE. Gorges d'Héric. No scale. Illustrates "De Mons-la-Trivalle à Héric," by Raymond Nauzières in *Bull.* Soc. Languedocienne de Géog., Vol. 32, p. 158, Montpellier, 1909.

FRANCE. Rochefort et ses Rades. No scale. *Rev. Franc.,* Vol. 35, p. 85, Paris, 1910. [A black sketch showing soundings and other conditions of the harbor.]

ITALY. Die Veränderungen am Vesuv in Folge des Ausbruchs vom April 1, 1906. Three black maps and 4 profiles on various scales. With paper of same title by G. Greim in *Geog. Zeitsch.,* Vol. 16, No. 1, Leipzig, 1910.

LONDON. Environs. Contoured Map of London. 1 inch=1 mile. John Bartholomew & Co., Edinburgh, 1909. Folded in paper cover, 1s. [A revised edition of this fine map which has 9 tints for contours of altitude. As the different kinds of roads are differentiated, the map is especially convenient for motorists, cyclists and pedestrians.]

EAST INDIES

DUTCH EAST INDIES. Schetskaart van de Ostkust van het Nordelijk Schiereiland van Halmahera. 1:300,000=473 miles. By Lieut. G. J. J. de Jongh. With paper "De Oostkust van Noord-Halmahera." *Tijdschrift* of the Royal Netherlands Geog. Soc., Vol. 26, No. 5, Amsterdam, 1909. [Only short sections of the west coast of this peninsula have yet been surveyed.]

DUTCH EAST INDIES. Overzichtskaart van den Indischen-Archipel. 1:6,000,000=94.6 miles. With paper "De Staatkundige Indeeling van Nederlandsch-Indië." *Tijdschrift* Royal Netherlands Geog. Soc., Vol. 26, No. 5, Amsterdam, 1909. [A colored map defining the administrative districts, posts of government officials and much other political information.]

DUTCH EAST INDIES. De Vaarwaters naar Soerabaja. 1:300,000=4.73 miles to an inch. By J. E. de Meyier. 5 Maps in colors and 6 profiles on 2 sheets. Illustrates "De vaarwaters naar Soerabaja en den loop der tijden." *Tijdschrift* Royal Netherlands Geog. Soc., Vol. 27, No. 1, Amsterdam, 1910. [Contours of depths and many soundings in meters in the strait of Soerabaja and its approaches as observed at different periods between 1843 and 1908. This strait separates the island of Madoera from Java.]

OCEANS

ATLANTIC AND MEDITERRANEAN. Campagne scientifique de la "Princesse Alice" du 27 Avril au 12 Septembre, 1909. No scale. *Bull.* 157, l'Institut océanographique, Monaco, 1910. [A black map showing route, stations and soundings from Monaco-Gibraltar-Atlantic-English Channel to mouth of the Elbe.]

MEDITERRANEAN. Environs de Monaco. Carte provisoire des Opérations effectuées par l'Eider et le Sténo en 1907-1909. 1 inch=4,250 feet. Illustrates *Bull.* 160, l'Institut océanographique, Monaco, 1910. [Shows soundings and contours of sea floor from Point Mortola to Cape Antibes.]

GEODETIC MAPS

MAPS OF GEODETIC OPERATIONS FOR MEASURING ARCS OF THE MERIDIAN. The following maps appear in "La Figure de la Terre," by Captain G. Perrier (Revue de Géog. annuelle, Tome 2, 1908):

Lapland. Arc de Laponie. 1 inch=25 miles.

Europe. Croquis de l'Europe. 1:15,000,000. [Shows the European network of Geodetic work and the arcs of the meridian measured.]

South America. Croquis de l'Équateur et des régions limitrophes de la Colombie et du Pérou. 1:3,000,000. [Relates to the geodetic and gravity work of the missions of 1735-44 and 1899-1906.]

Ecuador. Nouvelle méridienne de Quito. 1:3,000,000.

Spitzbergen. Arc du Spitzberg. 1 inch=59 miles.

North America. Principaux arcs de l'Amérique du Nord. 1 inch=1,100 miles.

ATLASES

Missionary Atlas showing the Foreign Mission Fields of the Methodist Episcopal Church. Board of Foreign Missions of the M. E. Church, New York, 1909. [31 plates in colors, with places occupied by M. E. missionaries underlined in red.]